Thin type universal isolate transducer

MODEL TH-2M, 5M

(Only DC Power)

■ Features

- AC power supply 100 to 240V AC
- DIN rail mounting
- Input/Output/Power supply isolated
- Can change input and output by dip switch

■ Ordering Code

TH–□M

Power specification
- 2 100 to 240V AC
- 5 24V DC

Example : TH–5M

■ Input Specification

Input	Input resistance	Input allowable range
0 to 5V DC	More than 1MΩ	-50 to +150% F.S
1 to 5V DC		
0 to 10V DC		
0 to 0.06V DC		
4 to 20mA DC	250Ω	
0 to 20mA DC		

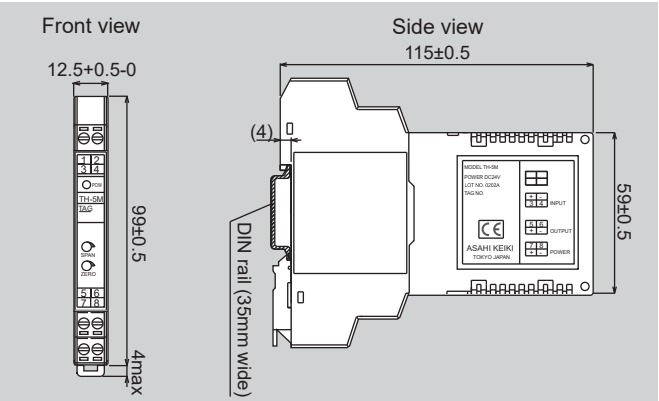
■ Output Specification

Output	Load resistance
0 to 5V DC	More than 2KΩ
1 to 5V DC	
0 to 10V DC	
-2 to 2V DC	
-2.5 to 2.5V DC	
-5 to 5V DC	
-10 to 10V DC	
0 to 4V DC	
4 to 20mA DC	Less than 550Ω

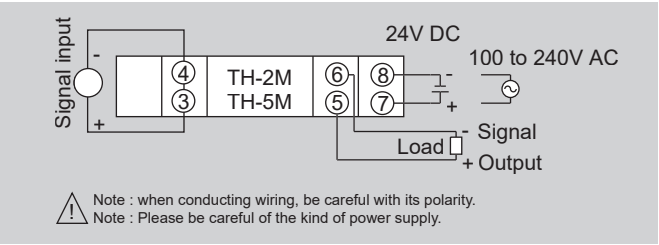
■ General Specifications

Range setting before shipment: Input;1to 5V, Output;4 to 20mA
Error caused by input range setting change: ±1%F.S
Error caused by output range setting change: ±1%F.S
Base accuracy: ±0.1% F.S (at 25±2°C)
Load resistance variation: ±0.06% F.S
Power supply variation: ±0.06% F.S
Temperature characteristic: ±0.02% F.S/°C
Response time: Less than 50msec TYP (At AC power, 0 → 90%)
Response time: Less than 10msec TYP (At DC power, 0 → 90%)
Front adjustments: ±5%F.S (zero, span)
Insulation resistance: Between the input and output/power supply
More than 100MΩ at 500V DC
Dielectric strength: Between the input and output/power supply
For 1 min. at 1500V AC
Power supply voltage: 100 to 240V AC ±10%
24V DC ±10%
Consuming current: Less than 30mA (at 100V AC)
Less than 60mA (at 24V DC)
Operating ambient temperature: -5 to 50°C
Operating ambient humidity: Less than 90%RH (No-condensing)
Storage temperature: Within -10 to 70°C
Storage humidity: Less than 60%RH (No-condensing)
Case material: Black PC 94V-2
Weight: Approx. 80g
Applicable standards: TH-5M (24V DC POWER)
EN61326-1
Only in the case of lines < 30m.
EN IEC 63000

■ Dimensions

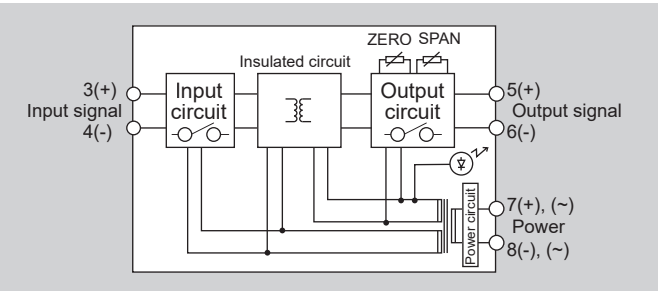


■ Connection Diagram

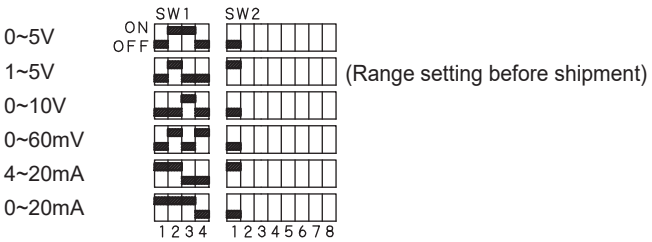


⚠ Note : when conducting wiring, be careful with its polarity.
Note : Please be careful of the kind of power supply.

■ Block Diagram

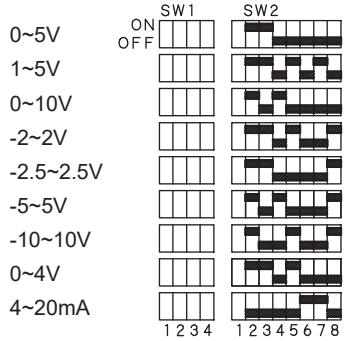


1. Changing input range



(Range setting before shipment)

2. Changing output range



(Range setting before shipment)